

DERWENT-ACC-NO: 2004-117568

DERWENT-WEEK: 200566

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Direct backlight with improved luminance

INVENTOR: CHO, G S

PATENT-ASSIGNEE: KWANG WOON DISPLAY TECHNOLOGY CO LTD[KWANN]

PRIORITY-DATA: 2002KR-0017761 (April 1, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 479160 B	March 25, 2005	N/A	000	G02F 001/1335
KR 2003079019 A	October 10, 2003	N/A	001	7
		G02F 001/1335		
		7		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
KR 479160B	N/A	2002KR-0017761	April 1, 2002
KR 479160B	Previous Publ.	KR2003079019	N/A
KR2003079019A	N/A	2002KR-0017761	April 1, 2002

INT-CL (IPC): G02F001/13357

ABSTRACTED-PUB-NO: KR2003079019A

BASIC-ABSTRACT:

NOVELTY - A direct backlight with improved luminance is provided to form a diffusion plate thicker at an upper end part of a fluorescent lamp and thinner at both sides of the lamp, thereby minimizing the luminance at the upper end of the lamp for obtaining the uniformity in the luminance.

DETAILED DESCRIPTION - A direct backlight with improved luminance includes a reflection plate(20), a light guide panel(30), a diffusion plate(40), and diffusion sheets(50,52). The reflection plate has an upper part in a predetermined inclined structure(24) for inducing light from a fluorescent lamp to side surfaces. The light guide panel is provided on the reflection plate and has a lower part in a predetermined inclined structure for inducing the light from the fluorescent lamp to side surfaces. The light guide panel has an upper part formed with grooves(38) by a uniform interval for securing the fluorescent lamp and protruded curve parts(36) at both ends of the grooves.

The diffusion plate is positioned on the light guide panel and mounted with the diffusion sheets which improve the uniformity in the luminance. The diffusion plate employs protrusion part(42) to be positioned on the securing grooves and depressed curve parts(44) corresponding to the protruded curve parts of the light guide panel.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: DIRECT IMPROVE LUMINOUS

DERWENT-CLASS: P81 U14

EPI-CODES: U14-K01A1C;

